

From: North.Phil@epamail.epa.gov
To: Jen.Mark@epamail.epa.gov
Date: 1/30/2013 1:49:30 PM
Subject: Re: Donlin Gold Project - Cooperating Agency Scoping Meeting - February 6 (1pm to 4 pm Alaska Time)

These parts of the BBWA might provide some ideas on scoping. Hope it helps.

7. Mine Footprint

7.1 Habitat Lost or Blocked

7.2 Downstream Flow Alteration

8. Water Treatment and Discharge [Suter]

8.1 Source Characterization

8.2 Chemical Contaminants

8.3 Temperature

9. Tailings Storage Failure [Suter and Ebersole]

9.1 Overview

9.2 Source Characterization of Tailings Dam Failures

9.3 Scour, Sediment Deposition and Turbidity

9.4 Post-Spill Water Quality

9.4.1 Suspended Tailings Particles

9.4.2 Tailings Constituents

9.6 Risks from Remediation of a Tailings Spill

10. Road Construction and Operation [Kravitz]

10.1 Fish Habitat along the Potential Road Corridor

10.2 Footprint of the Potential Road Corridor

10.3 Stream Crossings

10.4 Stormwater Runoff

10.5 Dust

10.6 Invasive Species

10.7 Overall Risk Characterization for the Road Corridor

10.8 Uncertainties

11. Pipeline Spills [Suter]

11.1 Product Slurry Spill

11.2 Diesel Spill

12. Effects on Wildlife and Alaska Natives Resulting from Fish Effects [Eckman]

12.1 Effects on Wildlife

12.1.1 Introduction

12.1.2 Mine Footprint

12.1.3 Mine Operations and Failures

12.1.4 Uncertainties

12.2 Effects on Alaska Native Populations

12.2.1 Introduction

12.2.2 Mine Footprint

12.2.3 Mine Operations and Failures

12.2.4 Uncertainties

9/13/2018

13. Cumulative Effects of Multiple Mines (Chapter 7) [Parkin]

- 13.1 Overview of Cumulative Effects
 - 13.1.1 From a Single Mine
 - 13.1.1.1 From Multiple Mines
 - 13.1.1.2 From Secondary Development
 - 13.1.2 Cumulative Effects in Other Salmon Watersheds

- 13.1.3 Potential Cumulative Effects in the Bristol Bay Watershed
- 13.2 Complete Footprint of a Single Mine
 - 13.2.1 Ore Processing Facilities
 - 13.2.2 Power Generation and Transmission Facilities
 - 13.2.3 Water Treatment Facilities
 - 13.2.4 Administrative and Living Facilities
 - 13.2.5 Equipment Storage and Maintenance Facilities
 - 13.2.6 On-Site Roads
 - 13.2.7 Effective Impermeable Surface
- 13.3 Other Potential Mine Sites
 - 13.3.1 Humble Prospect
 - 13.3.2 Big Chunk Prospect
 - 13.3.3 Groundhog Prospect
 - 13.3.4 Sill and 38 Zone Prospect
- 13.4 Secondary Development
 - 13.4.1 Roads Between Mines
 - 13.4.2 Induced Development
 - 13.4.3 Increased Accessibility
- 13.5 Potential Cumulative Effects on Assessment Endpoints
 - 13.5.1 Mine Footprints
 - 13.5.1.1 Habitat Lost or Blocked
 - 13.5.1.2 Downstream Flow Alteration
 - 13.5.2 Total Effective Impermeable Surface
 - 13.5.3 Increased Accessibility
- 13.6 Summary of Potential Cumulative Effects

14. Integrated Risk Characterization (Chapter 8) [Suter]

- 14.1 Overall Risk to Salmon and Other Fish
- 14.2 Overall Loss of Wetlands
- 14.3 Overall Fish-Mediated Risk to Wildlife
- 14.4 Overall Fish-Mediated Risk to Alaska Native Cultures
- 14.5 Summary of Uncertainties and Limitations in the Assessment
- 14.6 Summary of Uncertainties in Mine Design and Operation
- 14.7 Summary of Risks under the Mine Scenario
- 14.8 Summary of Cumulative and Watershed-Scale Risks from Multiple Mines

Phillip North
Environmental Protection Agency
Kenai River Center
514 Funny River Road
Soldotna, Alaska 99669
(907) 714-2483
fax 260-5992
north.phil@epa.gov

"To protect your rivers, protect your mountains."

Mark Jen---01/29/2013 04:09:19 PM---Greetings Everyone! As mentioned previously, the Donlin Gold Project EIS Cooperating Agency Scoping

From: Mark Jen/R10/USEPA/US
To: Cindi Godsey/R10/USEPA/US@EPA, Tami Fordham/R10/USEPA/US@EPA, Phil North/R10/USEPA/US@EPA, Matthew LaCroix/R10/USEPA/US@EPA, Lorraine Edmond/R10/USEPA/US@EPA, Herman Wong/R10/USEPA/US@EPA, Chris Eckley/R10/USEPA/US@EPA, Madonna Narvaez/R10/USEPA/US@EPA, Elizabeth McKenna/R10/USEPA/US@EPA
Cc: Christine Reichgott/R10/USEPA/US@EPA, Dianne Soderlund/R10/USEPA/US@EPA
Date: 01/29/2013 04:09 PM
Subject: Donlin Gold Project - Cooperating Agency Scoping Meeting - February 6 (1pm to 4 pm Alaska Time)

As mentioned previously, the Donlin Gold Project EIS Cooperating Agency Scoping Meeting is scheduled for...

Proposed Date: Wednesday, February 6, 2013;

Proposed Time: 1 pm to 4 pm Alaska Time (2 pm to 5 pm Pacific Time);

Proposed Venue: BLM Campbell Creek Science Center, Anchorage (Webinar or teleconference line to be provided);

Proposed Agenda: 1 - 2 pm Donlin Gold LLC will present a "Donlin 101 Presentation" (in greater detail)

2 - 4 pm Agency questions regarding the project

URS will summarize scoping comments heard at public meetings

Agency scoping issues

The final agenda and format should be determined by early next week and materials to be sent out prior to the meeting.

EPA Scoping Issues

As identified a few weeks ago, please provide your project scoping issues/concerns to me by this Friday, February 1. In preparation for the meeting on February 6, I am asking for a bulleted list of your scoping issues/comments that we would share with the EIS development team as a heads up to what EPA will be providing in our detailed formal Scoping Comments due to the Corps of Engineers on March 29, 2013. Please be very specific in identifying your scoping issues/comments and what you are asking the EIS to provide. For example, if mercury emissions are a concern, then specify the EIS should provide estimates of mercury emissions from the processing emission stacks, and from fugitive mercury from the tailings storage facility, etc.

After I receive your bulleted list of scoping issues/comments, I will compile them and send it to everyone for review prior to the February 6 meeting. If you are able to participate the February 6 meeting, then please feel free to raise your issue/comment. If you are not able to participate in the meeting, then I will raise the issue/concern on your behalf, if time allows. The significant issues/concerns would include - mercury emissions, acid rock drainage/metal leaching, chemical management, spill prevention, planning and response, wetlands and fisheries impacts, impacts to subsistence resources and access, financial assurance, etc.

I will try and talk to everyone this week to clarify what I am asking for by February 1. Thanks.

Mark S. Jen | Environmental Scientist
| U.S. Environmental Protection Agency | Region 10 |
| Alaska Operations Office | 222 W Seventh Avenue #19 | Room 537 |
| Anchorage, Alaska 99513-7588 |
| Office: 907-271-3411 | Cell: 907-602-8495 | Fax: 907-271-3424 |
| E-mail: jen.mark@epa.gov |